

WALL AND CEILING FASTENING SYSTEM AND METHODS

THEREFOR

ABSTRACT

A wall and ceiling fastening system and method useful for applications such as hanging or securing objects to hollow walls and ceilings is provided. In one embodiment, the fastening system includes a drivable anchor having at least one pivotable section and a pin configured to be inserted into a channel of the anchor. The anchor is driven into a wallboard of the wall or ceiling with a hammer or a suitable tool. As the pin is inserted into the anchor, a lever or rack and pinion action between the pin and the pivotable section causes the pivotable section to pivot towards and come into contact with an interior surface of the wallboard. Depending on the fastening application, the pin can have a suitable head such as a pan screw head, a flat screw head, a round screw head, an oval screw head, a countersunk screw head, a machine screw head, a hook head, an eye hook head, a ring head, a swivel head, a shoulder head, a nut, a bolt head or other suitable head. In addition, the pin can have a ratcheted body, a threaded body, or a ribbed body. In some embodiments, the cross-sectional profile of the anchor is elongated so as to provide a larger supporting surface between the anchor and the wallboard. In addition, the cross-sectional profile of the anchor channel can be elongated so that a wider range of pin body sizes and types can be accommodated. The anchor body may also have one of more stabilizing ribs.